BRUHAT BENGALURU MAHANAGARA PALIKE

NAME OF WORK: -IMPROVEMENTS OF ROADS,DRAINS AND CONSTRUCTION OF NEW BUILDING WORKS AT THINDLU COLONY,KEMPEGOWDA NAGARA , BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10

ESTIMATED COST;- 64.78 LAKH

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB-DIVISION

NAME OF WORK: -IMPROVEMENTS OF ROADS, DRAINS AND CONSTRUCTION OF NEW BUILDING WORKS AT THINDLU COLONY, KEMPEGOWDA NAGARA, BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA

Estimated Cost: - 64.78lakhs

ABSTRACT

TOTAL AMOUNT	**RS**	5351879.72
GST	**18%**	963338.35
TENDER PREMIUM	**3%**	160556.39
MISCELLANEOUS	**RS**	2225.54
GRAND TOTAL	**RS**	6478000.00

Assistant Engineer
Ward 10, Kodigehalli Sub-Division
BBMP

Asst. Executive Engineer
Kodigehalli Sub-Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Byatarayanapura Division

NAME OF WORK: -IMPROVEMENTS OF ROADS,DRAINS AND CONSTRUCTION OF NEW BUILDING WORKS AT THINDLU COLONY,KEMPEGOWDA NAGARA , BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA

DETAILED COST ESTIMATE

Estimate Cost : Rs.64.78 Lakhs

SL NO	PARTICULARS	UNIT	NO	MEASUREMENT			QUANTITY	RATE	AMOUNT
				LENGTH	BREADTH	DEPTH			
	Samudhaya Bhavana Building thindhu								
1	Removing and resetting of footpath slab (Approved arrival rate)								
	i]Kempegowda Nagar	Sqm	1.00	350.00	0.90		315.00		
					Sub Total		**315.00**		
	Consider 80%						**252.00**		
	Deduct 20% Missing Slabs						50.4		
					Sub Total A		**201.600**	235.00	47376.00
	Data Rate	**235.00**							
2	Dismantling of cement concrete pavement, Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately [PWD SR 2023-24/ Volume-3/ Chapter-2/P.NO-12/ Item no:-2.19/Ref. to MoRT&H : IRC 202]								
	Kempegowda Nagar	Cum	1.00	100.00	2.50	0.20	50.00		
					Total		**50.00**	**619.30**	**30965.00**
	Basic Rate	**563.00**							
	Add AW 10%	56.30							
	Total	**619.30**							
3	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. In all kinds of soils Depth upto 1.5 m[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-5/ Item no:-1.4.1]								
		Drain Disilting							
	i]Kempegowda Nagar	Cum	2.00	350.00	0.60	0.45	189.00		
					Total		**189.00**	**266.20**	**50311.80**
	Basic Rate	**242.00**							
	Add AW 10%	24.20							
	Total	**266.20**							
4	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drain age of surface waterincluding of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete.[PWD SR 2023-24/ Volume-2/ Chapter-2/P.NO-177/ Item no:-17.14]								
	New CC Slabs - 100mm								
	Quantity From Damaged/missing Slabs	Sqm	1.00	50.40			50.40		
					Total		**50.40**	**1287.00**	**64864.80**
	Basic Rate	**1170.00**							
	Add AW 10%	117.00							
	Total	**1287.00**							
	Road								

5	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.In all kinds of soils upto 300 mm depth[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-8/ Item no:-1.12]								
	i]Kempegowda Nagar	Cum	1.00	100.00	2.50	0.15	37.50		
					Total		**37.50**	**104.50**	**3918.75**
	Basic Rate	**95.00**							
	Add AW 10%	9.50							
	Total	**104.50**							
6	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 14:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 140 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 7 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing[PWD SR 2023-24/ Volume-3/ Chapter-6/P.NO-49/ Item no:-6.1]								
	Kempegowda Nagar	Cum	1.00	100.00	2.50	0.15	37.50		
					Total		**37.50**	**5412.00**	**202950.00**
	Basic Rate	**4920.00**							
	Add AW 10%	492.00							
	Total	**5412.00**							
7	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383:2016:, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.[PWD SR 2023-24/ Volume-3/ Chapter-16/P.NO-149/ Item no:-16.28]								
	Kempegowda Nagar	Cum	1.00	100.00	2.50	0.15	37.50		
					Total		**37.50**	**7429.40**	**278602.50**
	Basic Rate	**6754.00**							
	Add AW 10%	675.40							
	Total	**7429.40**							
8	Unload ing, Loading & Carriage of MaterialsLoading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 14 m3)[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-5/ Item no:-1.1 A]								
	Quantity From Item 3	Cum	1.00	189.00			189.00		
	Quantity From Item 12	Cum	1.00	37.50			37.50		
					Total		**226.50**	**148.50**	**33635.25**
	Basic Rate	**135.00**							
	Add AW 10%	13.50							
	Total	**148.50**							
9	Cost of Haulage Excluding Loading and Unloading,Taking output 10 t load and lead 10 km = 100 t.km[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-3/ Item no:-1.4 iii A]								
	Quantity from Item No-1	t.km	1.00	226.50	1.28		289.92		
						Total	**289.92**	**198.00**	**57404.16**
	Basic Rate	**12.00**							
	15KM LEAD [12*15=180]	180.00							
	Add AW 10%	18.00							
	Total	**198.00**							
	Samudhaya Bhavana Building thindhu								

10	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge.[PWD SR 2023-24/ Volume-2/ Chapter-19/P.NO-187/ Item no:-19.3]								
	Ground Floor								
	Ground Roof Slab	cum	1	9.00	8.00	0.15	10.80		
	Ground Floor Beams	cum	4	8.00	0.23	0.60	4.42		
	Ground Floor Lintel	cum	4	1.20	0.20	0.20	0.19		
	Ground Floor Chejja	cum	2	1.20	0.60	0.125	0.18		
						Total	**15.59**	**2668.60**	**41598.14**
	Basic Rate	**2426.00**							
	Add AW 10%	242.60							
	Total	**2668.60**							
11	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. [PWD SR 2023-24/ Volume-2/ Chapter-19/P.NO-187/ Item no:-19.7.3]								
	Wall Dismantling								
	Ground Floor		2	8.00	0.23	3.00	11.04		
			2	6.00	0.23	3.00	8.28		
						Total Qty	**19.32**	**1131.90**	**21868.31**
	Basic Rate	**1029.00**							
	Add AW 10%	102.90							
	Total	**1131.90**							
12	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineerin- charge. In cement mortar[PWD SR 2023-24/ Volume-2/ Chapter-19/P.NO-187/ Item no:-19.9.2]								
	Old building foundation								
	Ground Floor		1	10.00	0.45	0.45	2.03		
			2	9.00	0.45	0.45	3.65		
						Total Qty	**5.67**	**1852.40**	**10503.11**
	Basic Rate	**1684.00**							
	Add AW 10%	168.40							
	Total	**1852.40**							
13	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge.[PWD SR 2023-24/ Volume-2/ Chapter-19/P.NO-187/ Item no:-19.2.1]								
	Ground Floor		1	8.00	6.00	0.125	6.00		
						Total Qty	**6.00**	**1829.30**	**10975.80**
	Basic Rate	**1663.00**							
	Add AW 10%	166.30							
	Total	**1829.30**							
14	Unload ing, Loading & Carriage of MaterialsLoading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 14 m3)[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-5/ Item no:-1.1 a]								
	Quantity From Item 1	Cum	1.00	15.59			15.59		
	Quantity From Item 2	Cum	1.00	19.32			19.32		
	Quantity From Item 3	Cum	1.00	5.67			5.67		
	Quantity From Item 4	Cum	1.00	6.00			6.00		
						Total	**46.58**	**148.50**	**6916.83**
	Basic Rate	**135.00**							
	Add AW 10%	13.50							
	Total	**148.50**							
15	Cost of Haulage Excluding Loading and Unloading,Taking output 10 t load and lead 10 km = 100 t.km[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-3/ Item no:-1.4 iii A]								
	Quantity from Item No-1	t.km	1.00	46.58	1.28		59.62		
						Total	**59.62**	**198.00**	**11804.73**
	Basic Rate	**12.00**							
	15KM LEAD [12*15=180]	180.00							
	Add AW 10%	18.00							
	Total	**198.00**							

16	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-29/ Item no:-1.4.2]								
	For Footing		8	1.20	1.20	1.50	17.28		
	For SSM		2	19.90	0.45	0.45	8.06		
			2	4.80	0.45	0.45	1.94		
		Cum			Total		27.28	284.90	7772.07
	Rate Analysis								
	Basic Rate		259.00						
	Area Weightage 10%		25.90						
	Total		**284.90**						
17	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)- Mix 1:3:6(M10) Using 40 mm nominal size graded crushed coarse aggregates [PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-15/ Item no:-2.1.3]								
	For Footing		8	1.20	1.20	0.15	1.73		
	For SSM		2	19.90	0.45	0.15	2.69		
			2	4.80	0.45	0.15	0.65		
		Cum			Total		5.06	6587.90	33334.77
	Rate Analysis								
	Basic Rate		5989.00						
	Area Weightage 10%		598.90						
	Total		**6587.90**						
18	Providing Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)[PWD SR 2023-24/ Volume-2/ Chapter-5/P.NO-9/ Item no:-5.1.1]								
	For 1st coarse SSM		2	19.90	0.45	0.30	5.37		
			2	4.80	0.45	0.30	1.30		
		Cum			Total		6.67	6172.10	41167.91
	Rate Analysis								
	Basic Rate		5611.00						
	Area Weightage 10%		561.10						
	Total		**6172.10**						
19	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates [PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.4.3]								
	For Footing		8	1.20	1.20	0.45	5.18		
		Cum			Total		5.18	7527.17	38990.73

	Rate Analysis								
	Basic Rate		6336.00						
	Area Weightage 10%		633.60						
	8% for formwork		557.57						
	Total		**7527.17**						
20	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates [PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.5.2]								
	Column upto Plinth		8	0.45	0.225	1.50	1.22		
	Ground Floor								
	Column		8	0.45	0.225	3.00	2.43		
	First Floor								
	Column		8	0.45	0.225	3.00	2.43		
		Sqm			**Total**		**6.08**	**12796.41**	**77738.19**
	Rate Analysis								
	Basic Rate		6843.00						
	Area Weightage 10%		684.30						
	70% for formwork		5269.11						
	Total		**12796.41**						
21	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.5.2]								
	Plinth Beams		2	19.90	0.225	0.30	2.69		
			2	4.80	0.225	0.30	0.65		
	Ground Floor								
	Lintel		2	19.90	0.15	0.10	0.60		
			2	4.80	0.15	0.10	0.14		
	Chejjas		4	1.50	0.30	0.075	0.14		
	Beams		2	19.90	0.225	0.30	2.69		
			4	4.80	0.225	0.30	1.30		
	Slab		1	19.90	5.20	0.15	15.52		
	Staircase		18	1.00	0.225	0.15	0.61		
			18	1.00	0.225	0.15	0.61		
	Landing		2	2.00	1.00	0.15	0.60		
			2	4.00	1.00	0.15	1.20		
	First Floor								
	Lintel		2	19.90	0.13	0.10	0.50		
			2	4.80	0.13	0.10	0.12		
	Chejjas		4	1.50	0.25	0.075	0.11		
	Beams		2	19.90	0.225	0.30	2.69		
			4	4.80	0.225	0.30	1.30		
	Slab		1	19.90	5.20	0.15	15.52		
		Sqm			**Total**		**46.96**	**11290.95**	**530273.82**
	Rate Analysis								
	Basic Rate		6843.00						
	Area Weightage 10%		684.30						
	50% for formwork		3763.65						
	Total		**11290.95**						

22	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification. A.Buildings[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-18/ Item no:-2.11 A]								
	For Footings		5.18		85.00	kg/cum	440.64		
	For Columns		6.08		165.00	kg/cum	1002.38		
	For Lintel		1.61		90.00	kg/cum	144.54		
	For Beams		11.30		140.00	kg/cum	1581.93		
	For Slab		31.04		100.00	kg/cum	3104.40		
	For Staircase		3.02		90.00	kg/cum	271.35		
		Kg					6545.24		
						TONNE	6.55	98402.70	644069.29
	Rate Analysis								
	Basic Rate		89457.00						
	Area Weightage 10%		8945.70						
	Total		**98402.70**						
23	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-34/ Item no:-1.9]								
	For Footing		8	1.20	1.20	1.50	17.28		
		Cum			**Total**		17.28	292.60	5056.13
	(Page No.7 , Item No.1.9 of KPWD Vol-1 SR 2021-22)								
	Rate Analysis								
	Basic Rate		266.00						
	Area Weightage 10%		26.60						
	Total		**292.60**						
24	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **Mix 1:2:4 (M15)** Using 20 mm nominal size graded crushed coarse aggregates.[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.4.1]								
	Flooring								
	GF								
			1	19.90	4.80	0.10	9.55		
		Cum			**Total**		9.55	7044.40	67274.02
	Rate Analysis								
	Basic Rate		6404.00						
	Area Weightage 10%		640.40						
	Total		**7044.40**						
25	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.								
	Ground Floor								
			2	19.90		3.00	119.40		
			2	4.80		3.00	28.80		
	Deduction								
	Doors		-1	1.20		2.10	-2.52		
	Windows		-5	1.50		1.20	-9.00		

	First Floor								
			2	19.90		3.00	119.40		
			2	1.50		3.00	9.00		
	Deduction								
	Doors		-1	1.20		2.10	-2.52		
	Windows		-5	1.50		1.20	-9.00		
	Terrace Floor								
	Parapet Wall		2	19.90		0.90	35.82		
			2	4.80		0.90	8.64		
		Sqm					**298.02**	**1354.10**	**403548.88**
	(Page No.17 , Item No.6.33 of KPWD Vol-2 SR 2023-24)								
	Rate Analysis								
	Basic Rate		1231.00						
	Area Weightage 10%		123.10						
	Total		**1354.10**						
26	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.								
	Partition Walls								
	GF		2	4.80		3.00	28.80		
	FF		3	4.80		3.00	43.20		
		Sqm				**Total**	**72.00**	**1214.40**	**87436.80**
	(Page No.17 , Item No.6.34 of KPWD Vol-2 SR 2023-24								
	Rate Analysis								
	Basic Rate		1104.00						
	Area Weightage 10%		110.40						
	Total		**1214.40**						
27	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.								
	Ground Floor								
			2	19.90		3.00	119.40		
			2	4.80		3.00	28.80		
	Deduction								
	Doors		-1	1.20		2.10	-2.52		
	Windows		-5	1.50		1.20	-9.00		
	First Floor								
			2	19.90		3.00	119.40		
			2	4.80		3.00	28.80		
	Deduction								
	Doors		-1	1.20		2.10	-2.52		
	Windows		-5	1.50		1.20	-9.00		
	Partition Walls								
	GF		4	4.80		3.00	57.60		
	FF		6	4.80		3.00	86.40		
		Sqm					**417.36**	**350.63**	**146336.85**
	(Page No.41 , Item No.8.1.1 of KPWD Vol-2 SR 2023-24								
	Rate Analysis								
	Basic Rate		255.00						
	Area Weightage 10%		25.50						
	25% for formwork		70.13						
	Total		**350.63**						
28	Providing 20 mm cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge								

	Ground Floor								
			2	19.90		3.00	119.40		
			2	4.80		3.00	28.80		
	Deduction								
	Doors		-1	1.20		2.10	-2.52		
	Windows		-5	1.50		1.20	-9.00		
	First Floor								
			2	19.90		3.00	119.40		
			2	4.80		3.00	28.80		
	Deduction								
	Doors		-1	1.20		2.10	-2.52		
	Windows		-5	1.50		1.20	-9.00		
	Terrace Floor								
	Parapet Wall		4	19.90		0.90	71.64		
			4	4.80		0.90	17.28		
		Sqm					**362.28**	**589.88**	**213699.92**
	(Page No.42 , Item No.8.6.2 of KPWD Vol-2 SR2023-24								
	Rate Analysis								
	Basic Rate		429.00						
	Area Weightage 10%		42.90						
	25% for formwork		117.98						
	Total		**589.88**						
29	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.								
	Interior Qty Vide No 12						417.36		
		Sqm					**417.36**	**137.50**	**57387.00**
	(Page No.50 , Item No.8.51 of KPWD Vol-2 SR 2023-24								
	Rate Analysis								
	Basic Rate		100.00						
	Centering 25%		25.00						
	Area Weightage 10%		12.50						
	Total		**137.50**						
30	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.								
	Interior Qty Vide No 12						417.36		
		Sqm					**417.36**	**229.63**	**95836.29**
	(Page No.48 , Item No.8.41 of KPWD Vol-2 SR 2023-24								
	Rate Analysis								
	Basic Rate		167.00						
	Area Weightage 10%		16.70						
	25% for formwork		45.93						
	Total		**229.63**						
31	Finishing walls with textured exterior paint of required shade :New work (Two coats applied @ 3.28 ltr/10 m^2) over and including priming coat of exterior primer applied @ 2.20kg/10 m^2 to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.								
	Exterior Qty Vide No 13						362.28		
		Sqm					**362.28**	**389.13**	**140972.21**
	(Page No.45 , Item No.8.29 of KPWD Vol-2 SR 2023-24								
	Rate Analysis								
	Basic Rate		283.00						
	Area Weightage 10%		28.30						
	25% for formwork		77.83						
	Total		**389.13**						

32	Providing and fixing M.S. grills of required pattern in frames of win- dows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.								
	Ground Floor								
	Windows		5	1.50		1.20	9.00		
	First Floor								
	Windows		5	1.50		1.20	9.00		
							18.00		
	Consider 21kg/Sqm								
		Kgs					**378.00**	**201.30**	**76091.40**
	(Page No.86 , Item No.11.34(B) of KPWD Vol-2 SR 2023-24								
	Rate Analysis								
	Basic Rate		183.00						
	Area Weightage 10%		18.30						
	Total		**201.30**						
33	Providing & fixing of 2.5 track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets - grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 94mm width x 45mm height with reinforcement of 1mm thickness and Sash with overall size of 39mm x 58mm with GI reinforcement of 1.5mm and mesh sash of size 25mm x 42mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 1819mm x 1819mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)								
	Ground Floor								
	Windows		4	1.50		1.20	7.20		
	First Floor								
	Windows		4	1.50		1.20	7.20		
		Sqm					**14.40**	**7206.10**	**103767.84**
	(Page No.110 , Item No.12.89 of KPWD Vol-2 SR 2023-24								
	Rate Analysis								
	Basic Rate		6551.00						
	Area Weightage 10%		655.10						
	Total		**7206.10**						
34	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)								
	Ward 104								
	Ground Floor								
	Doors		1	1.20		2.10	2.52		
	First Floor								
	Doors		1	1.20		2.10	2.52		
		Sqm					**5.04**	**8188.40**	**41269.54**
	(Page No.100 , Item No.12.15 of KPWD Vol-2 SR 2023-24								
	Rate Analysis								
	Basic Rate		7444.00						
	Area Weightage 10%		744.40						
	Total		**8188.40**						
35	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.								
	Ground Floor								
	Doors		2	1.20	0.10	0.125	0.03		
			2	2.10	0.10	0.125	0.05		

	First Floor								
	Doors		2	1.20	0.10	0.125	0.03		
			2	2.10	0.10	0.125	0.05		
		Cum					**0.17**	**151881.40**	**25819.84**
	(Page No.99 , Item No.12.11 of KPWD Vol-1 SR 2023-24								
	Rate Analysis								
	Basic Rate		138074.00						
	Area Weightage 10%		13807.40						
	Total		**151881.40**						
36	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. ** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent.								
	Ground Floor								
	Flooring		1	19.90	4.80		95.52		
	Skirting		2	19.90		0.10	3.98		
			2	4.80		0.10	0.96		
	Staircase								
	Risers		40	1.00		0.15	6.00		
	Treads		38	1.00	0.225		8.55		
	Landing		1	2.00	1.00		2.00		
			1	2.00	1.00		2.00		
	First Floor								
	Flooring		1	19.90	4.80		95.52		
	Skirting		2	19.90		0.10	3.98		
			2	4.80		0.10	0.96		
		Sqm					**219.47**	**3137.20**	**688521.28**
	(Page No.63 , Item No.9.24 of KPWD Vol-2 SR 2023-24								
	Rate Analysis								
	Basic Rate		2852.00						
	Area Weightage 10%		285.20						
	Total		**3137.20**						
37	Providing and fixing 18 mm thick gang saw cut granite of any color and shade, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch up, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Area of slab over 0.50 m2								
	Front Cladding								
			1	19.90		3.00	59.70		
	Deduction		-2	1.50		1.20	-3.60		
			-1	1.50		2.10	-3.15		
		Sqm					**52.95**	**4330.70**	**229310.57**
	(Page No.68 , Item No.10.1.2 of KPWD Vol-2 SR2023-24								
	Rate Analysis								
	Basic Rate		3937.00						
	Area Weightage 10%		393.70						
	Total		**4330.70**						
38	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.. - 25mm nominal OD pipes.								
			1	75.00			75.00		
		Rmt					**75.00**	**524.70**	**39352.50**

	Page No. 122, I.No.13.32.3 KPWD SR Vol-2 2023-24								
	Rate Analysis								
	Basic Rate		477.00						
	Add 10% Area Weitage		47.70						
	Final Rate		**524.70**						
39	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc..- 32mm nominal OD pipes.								
			1	45.00			45.00		
		Rmt					**45.00**	**612.70**	**27571.50**
	Page No. 122, I.No.13.32.4 KPWD SR Vol-2 2023-24								
	Rate Analysis								
	Basic Rate		557.00						
	Add 10% Area Weitage		55.70						
	Final Rate		**612.70**						
40	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.								
	SS Railings								
	Staircase		2	9.00		1.20	21.60		
			1	14.00		1.00	14.00		
							35.60		
	Consider 16kg/sqm								
		Kgs					**569.60**	**621.50**	**354006.40**
	(Page No.85 , Item No.11.28 of KPWD Vol-2 SR 2023-24								
	Rate Analysis								
	Basic Rate		565.00						
	Area Weightage 10%		56.50						
	Total		**621.50**						
41	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia ..... mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary								
	a)19/20mm dia 2mm thick.								
			1	50.00			50.00		
		Mtr					**50.00**	**66.00**	**3300.00**
	(P.N0.2 ,I.No. 1.2.1) PWD Part-1 ELEC SR2023-24								
	Rate Analysis								
	Basic Rate		**66.00**						
42	Groove cutting in walls Supplying heavy gauge PVC Conduit Pipe ....dia ....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.								
	a)19/20mm dia 2mm thick								
			1	50.00			50.00		
		Mtr					**50.00**	**68.00**	**3400.00**
	(Pno 2 ; I No 1.3.1) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**68.00**						

43	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.								
	a)200x200x65mm								
			10				10.00		
		Each					**10.00**	**348.00**	**3480.00**
	(P.N0.2 ,I.No. 1.4.7) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**348.00**						
44	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.								
	a)1 sqmm								
			1	50.00			50.00		
		Mtr					**50.00**	**19.00**	**950.00**
	(P.No. 5, I.No.2.3.1) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**19.00**						
45	b) 1.5 sqmm								
			1	50.00			50.00		
		Mtr					**50.00**	**26.00**	**1300.00**
	(P.No. 5, I.No.2.3.2) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**26.00**						
46	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.								
	e) 12 Module								
			8				8.00		
		Mtr					**8.00**	**344.00**	**2752.00**
	(P.No.8, I.No.3.5.6) PWD Part-1 ELEC SR2023-24								
	Rate Analysis								
	Basic Rate		**344.00**						
47	f)16 Module								
			4				4.00		
		Mtr					**4.00**	**397.00**	**1588.00**
	(P.No8, I.No.3.5.6) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**397.00**						
48	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.								
	a)6Amps one way.								
			24				24.00		
		No					**24.00**	**102.00**	**2448.00**
	(P.No. 9, I.No.3.6.1) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**102.00**						
49	c) 6Amps 3way socket.								
			10				10.00		
		No					**10.00**	**171.00**	**1710.00**
	(P.No. 9, I.No.3.6.3) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**171.00**						
50	d) Stepped Fan Regulator Two Module								
			8				8.00		

		No					8.00	357.00	2856.00
	(P.No. 9, I.No.3.6.4) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**357.00**						
51	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/79 and also comply with IS: 1709/1984 with latest amendment, Rated voltage 220 V/50 Hz, Rated power input 48 W +/- 10 %, Rated current As per IS:374/79, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value 4.2 CMM / W, Three Blades of blade leaf 1.05 mm thick Aluminium Alloy sheet, Class B motor insulation, Bearing Two ball bearings, Top 6202, Bottom 6201, as per IS specification, Motor winding. Temp rise Shall not exceed 75 deg C over and ambient of 40 0C by resistance method at 245 V, Insulation resistance Shall not be less than Two Mega Ohms (2M Ohms), Leakage current Should not exceed 210 Micro Amp, Power input, W& current, Air Delivery & Fan Speed as per IS:374/1979 with latest amendment, 2 year manufacturer Warranty. 56" Sweep 5 Star (1400 mm)								
			8				8.00		
		Each					**8.00**	**3754.00**	**30032.00**
	(P.No. 30, I.No.6.4.2) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**3754.00**						
52	Fixing all types and all capacities of fluorescent / false ceiling/ spot light / CFL / LED fittings indoor on the wall / ceiling /rafters / girders using 23/0.0076" twin twisted PVC insulatedwires, required Nos of round blocks and clamps.								
			8				8.00		
			8				8.00		
		Each					**16.00**	**122.00**	**1952.00**
	(P.No.56, I.No.13.7.1) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**122.00**						
53	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 18W, 6500K								
			8				8.00		
		Each					**8.00**	**426.00**	**3408.00**
	(P.No. 47, I.No.11.11.7) PWD Part-1 ELEC SR 2023-24								
	Rate Analysis								
	Basic Rate		**426.00**						
	PLUMBING AND SANITARY WORKS								
54	Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes but without fittings and the base support for tank(PWD SR 2023-24 Vol -2 item no 13.34)								
	water tank								
	For Building	L	1	10000.00			10000.00		
		L				**Total**	**10000.00**	9.00	**90000.00**
55	Providing and fixing white vitreous china pedestal type water closet **(European type)** with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 m m flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : -W.C. pan with ISI marked white solid plastic seat and lid (Volume-2, P.No.123, I.No.14.3.1 of KPWD S.R 2023-24								
		Each							
			2				2.00		

						Total	2.00	6574.70	13149.40
	Basic Rate	5977.00							
	Area Weightage @ 10%	597.70							
	Total	**6574.70**							
56	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern (Volume-2, P.No.124, I.No.14.4.4 of KPWD S.R 2023-24)								
		Each							
			2				2.00		
						Total	2.00	14377.00	28754.00
	Basic Rate	13070.00							
	Area Weightage @ 10%	1307.00							
	Total	**14377.00**							
57	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required: using White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer (Volume-2, P.No.125, I.No.14.7.3 of KPWD S.R2023-24)								
		Each							
			2				2.00		
						Total	2.00	3152.60	6305.20
	Basic Rate	2866.00							
	Area Weightage @ 10%	286.60							
	Total	**3152.60**							
58	Providing and fixing 600x450 mm **beveled edge mirror** of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. (Volume-2, P.No.128, I.No.14.31 of KPWD S.R 2023-24)								
		Each							
			2				2.00		
						Total	2.00	1342.00	2684.00
	Basic Rate	1220.00							
	Area Weightage @ 10%	122.00							
	Total	**1342.00**							
59	Providing and fixing **PTMT towel rail** complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 450 mm long towel rail with total length of 495 mm, 78 mm wide andeffective height of 88 mm, weighing not less than 170 g. (Volume-2, P.No.130, I.No.14.40.1 of KPWD S.R 2023-24)								
		Each							
			4				4.00		
						Total	4.00	525.80	2103.20
	Basic Rate	478.00							
	Area Weightage @ 10%	47.80							
	Total	**525.80**							
60	Providing and fixing **PTMT liquid soap container** 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms. (Volume-2, P.No.129, I.No.14.38 of KPWD S.R 2023-24)								
		Each							
			4				4.00		
						Total	4.00	159.50	638.00
	Basic Rate	145.00							
	Area Weightage @ 10%	14.50							
	Total	**159.50**							

61	Providing and fixing **C.P. brass bib cock** of approved quality conforming to IS:8931 (Volume-2, P.No.117, I.No.13.12 of KPWD S.R 2023-24								
		Nos.							
			15				15.00		
						Total	**15.00**	**698.50**	**10477.50**
	Basic Rate	635.00							
	Area Weightage @ 10%	63.50							
	Total	**698.50**							
62	Providing and fixing **C.P. brass stop cock** (concealed) of standard design and of approved make conforming to IS:8931. (Volume-2, P.No.117, I.No.13.15 of KPWD S.R2023-24)								
		Each							
			10				10.00		
						Total	**10.00**	**797.50**	**7975.00**
	Basic Rate	725.00							
	Area Weightage @ 10%	72.50							
	Total	**797.50**							
63	Providing and fixing unplasticised **P.V.C. connection pipe** with PTMT Nuts, collar and bush of approved quality and colour. - 15 mm nominal bore with 45cm length (Volume-2, P.No.119, I.No.13.27.2 of KPWD S.R 2023-24)								
		Set							
			20				20.00		
						Total	**20.00**	**127.60**	**2552.00**
	Basic Rate	116.00							
	Area Weightage @ 10%	11.60							
	Total	**127.60**							
64	Providing and fixing **gun metal non- return valve** of approved quality (screwed end) : **25 mm nominal bore - Horizontal type.** (Volume-2, P.No.115, I.No.13.6.1.1 of KPWD S.R 2023-24)								
		Each							
			10				10.00		
						Total	**10.00**	**682.00**	**6820.00**
	Basic Rate	620.00							
	Area Weightage @ 10%	62.00							
	Total	**682.00**							
	INTERNAL WATER SUPPLY SYSTEM								
65	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings, including fixing the pipe with the clamp at 1.00 mtr spacing . This includes joining of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. **(Internal works) (Concealed work, including cutting chases and making good the walls etc.) 15mm dia pipe nomina** (Volume-2, I.No.13.32.1 of KPWD S.R 2023-24)								
		Mtr							
	15mm dia pipe nominal		1	60.00			60.00		
						Total	**60.00**	**339.90**	**20394.00**
	1st Addenda on 21.04.2022								
	Basic Rate	309.00							
	Area Weightage @ 10%	30.90							
	Total	**339.90**							
66	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings, including fixing the pipe with the clamp at 1.00 mtr spacing . This includes joining of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. **(Internal works) (Concealed work, including cutting chases and making good the walls etc.) 20mm dia pipe nomina** (Volume-2, I.No.13.32.2 of KPWD S.R 2023-24)								
		Mtr							
	20mm dia pipe nominal		1	25.00			25.00		

						Total	25.00	416.90	10422.50
	Basic Rate	379.00							
	Area Weightage @ 10%	37.90							
	Total	**416.90**							
67	Providing and fixing **Brass full way valve gate** with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore (Volume-2 P.No.115, I.No.13.4.1 of KPWD S.R 2023-24)								
		Nos.							
	25 mm nominal bore		10				10.00		
						Total	10.00	603.90	6039.00
	Basic Rate	549.00							
	Area Weightage @ 10%	54.90							
	Total	**603.90**							
68	Providing and fixing **Brass full way valve gate** with C.I. wheel of approved quality (screwed end) : 32 mm nominal bore (Volume-2, Pg. No. 115, It. No. 13.4.2 of KPWD S.R2023-24)								
		Nos.							
	32 mm nominal bore		5				5.00		
						Total	5.00	657.80	3289.00
	Basic Rate	598.00							
	Area Weightage @ 10%	59.80							
	Total	**657.80**							
	EXTERNAL WATER SUPPLY								
69	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings. This includes joining of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge. **(External works)** (Volume-2, I.No.13.33.1 of KPWD S.R2023-24								
	15mm dia pipe	**Mtr**	1	20.00			20.00		
						Total	20.00	182.60	3652.00
	Basic Rate	166.00							
	Area Weightage @ 10%	16.60							
	Total	**182.60**							
70	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings. This includes joining of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge. **(External works)** (Volume-2, I.No.13.33.2 of KPWD S.R 2023-24								
	20mm dia pipe	**Mtr**	1	20.00			20.00		
						Total	20.00	238.70	4774.00
	Basic Rate	217.00							
	Area Weightage @ 10%	21.70							
	Total	**238.70**							
71	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings. This includes joining of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge **(External works)** (Volume-2, I.No.13.33.3 of KPWD S.R 2023-24)								
	25mm dia pipe	**Mtr**	1	20.00			20.00		
						Total	20.00	325.60	6512.00
	Basic Rate	296.00							
	Area Weightage @ 10%	29.60							
	Total	**325.60**							

72	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings. This includes joining of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge. **(External works)** (Volume-2, I.No.13.33.6 of KPWD S.R 2023-24								
	50mm dia pipe	**Mtr**	1	20.00			20.00		
						Total	**20.00**	**793.10**	**15862.00**
	Basic Rate	721.00							
	Area Weightage @ 10%	72.10							
	Total	**793.10**							
	Sub total								**5351879.72**
	GST Charges 18%								963338.35
	ADD ESTIMATE AND QC CHARGES 3%								160556.39
	Miscellaneous & Rounding off:								**2225.54**
						Total Rs:			**6478000.00**

CERTIFICATE:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of .and 2023-2024
5. The above work is not Repeated any other grants and not in the list of completed works

Assistant Engineer
Ward 10, Kodigehalli Sub-Division
BBMP

Asst. Executive Engineer
Kodigehalli Sub-Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು

ADMINISTRATIVE SANCTION

Accorded for Rs. 64.78 Lakhs

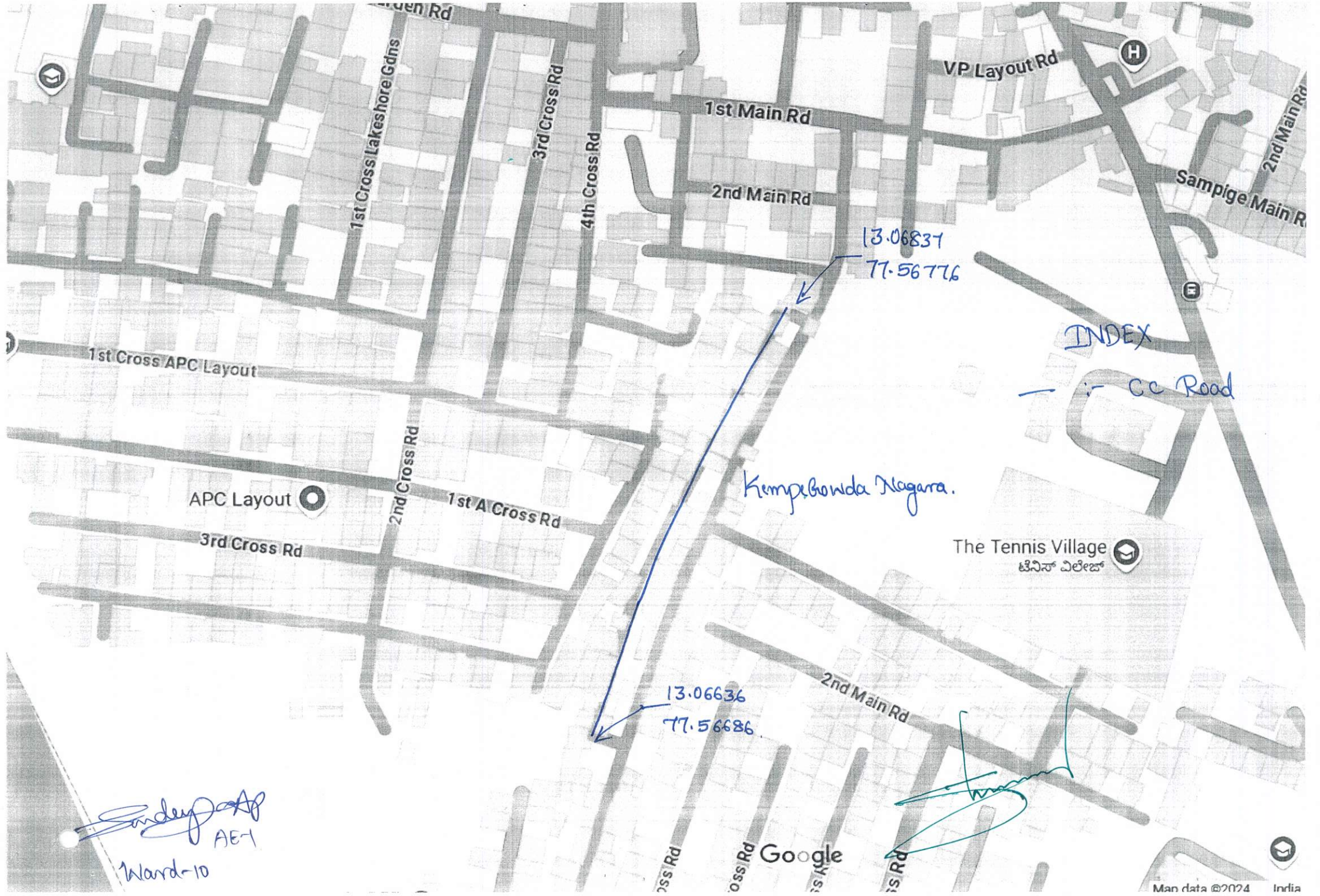
Head of A/c. P1878

Div. Ref. No. 47 Date. 15/10/24

AE/DM

EE(BTP) BBMP

Technical Sanction
Accorded For Rs. 64.78 Lakhs
Head of A/C P1878
CER NO : SA Dt: 15/10/24


1st Main Rd
VP Layout Rd
2nd Main Rd
Sampige Main Rd
1st Cross Lakeshore Gdns
3rd Cross Rd
4th Cross Rd
13.06837
77.56776
INDEX
CC Road
1st Cross APC Layout
2nd Cross Rd
APC Layout
1st A Cross Rd
3rd Cross Rd
Kempegowda Nagara.
The Tennis Village
ಟೆನಿಸ್ ವಿಲೇಜ್
13.06636
77.56686
2nd Main Rd
AE-1
Ward-10
Google
Map data ©2024
India

NAME OF WORK: - IMPROVEMENTS OF ROADS,DRAINS AND CONSTRUCTION OF NEW BUILDING WORKS AT THINDLU COLONY,KEMPEGOWDA NAGARA , BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA

Estimated Cost :- 64.78lakhs

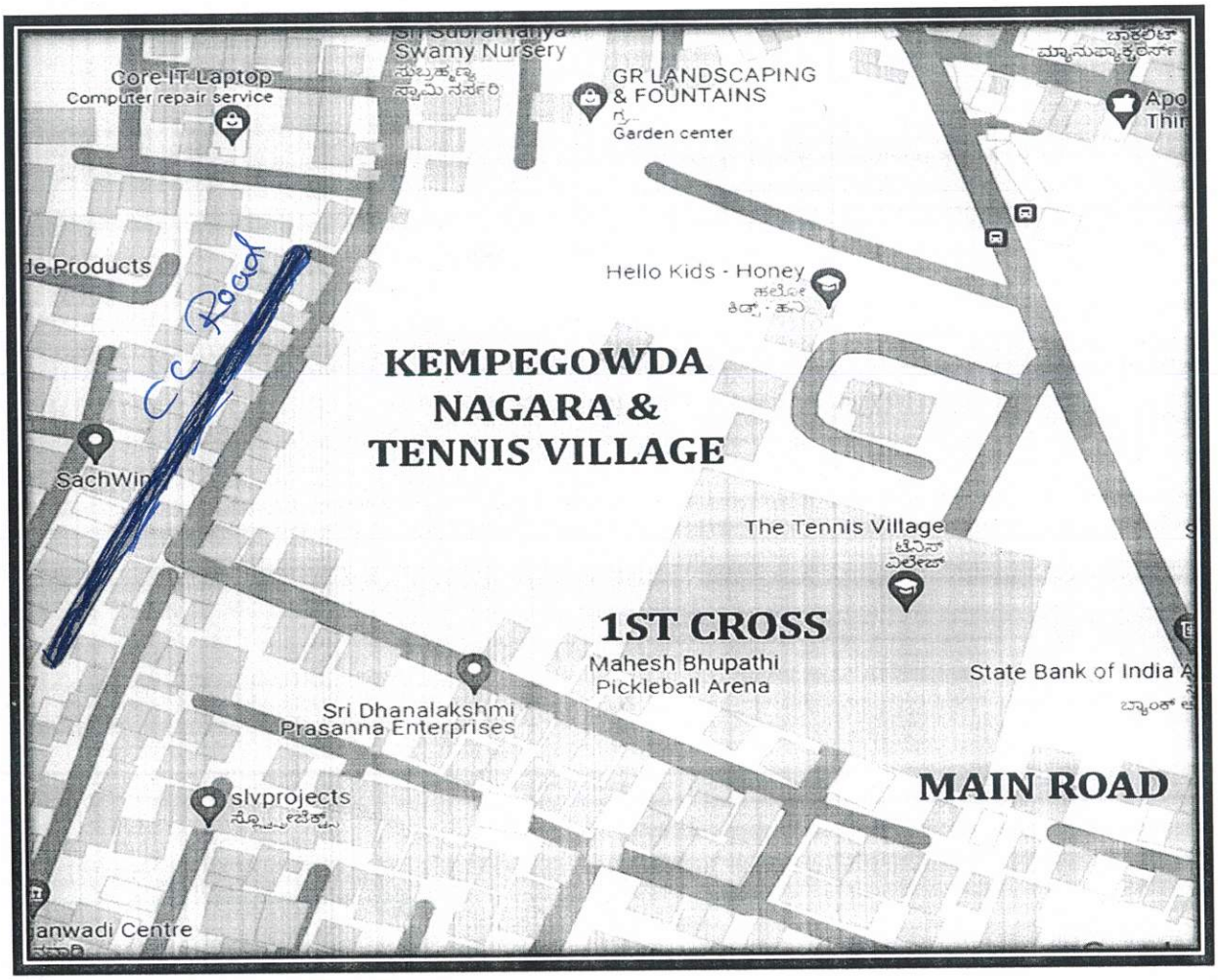


Figure 1 KEMPEGOWDA NAGARA & TENNIS VILLAGE

Assistant Engineer
Ward 10, Kodigehalli Sub-Division
BBMP

Asst. Executive Engineer
Kodigehalli Sub-Division
BBMP

NAME OF WORK: - IMPROVEMENTS OF ROADS,DRAINS AND CONSTRUCTION OF NEW BUILDING WORKS AT THINDLU COLONY,KEMPEGOWDA NAGARA , BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA

Estimated Cost :- 64.78lakhs

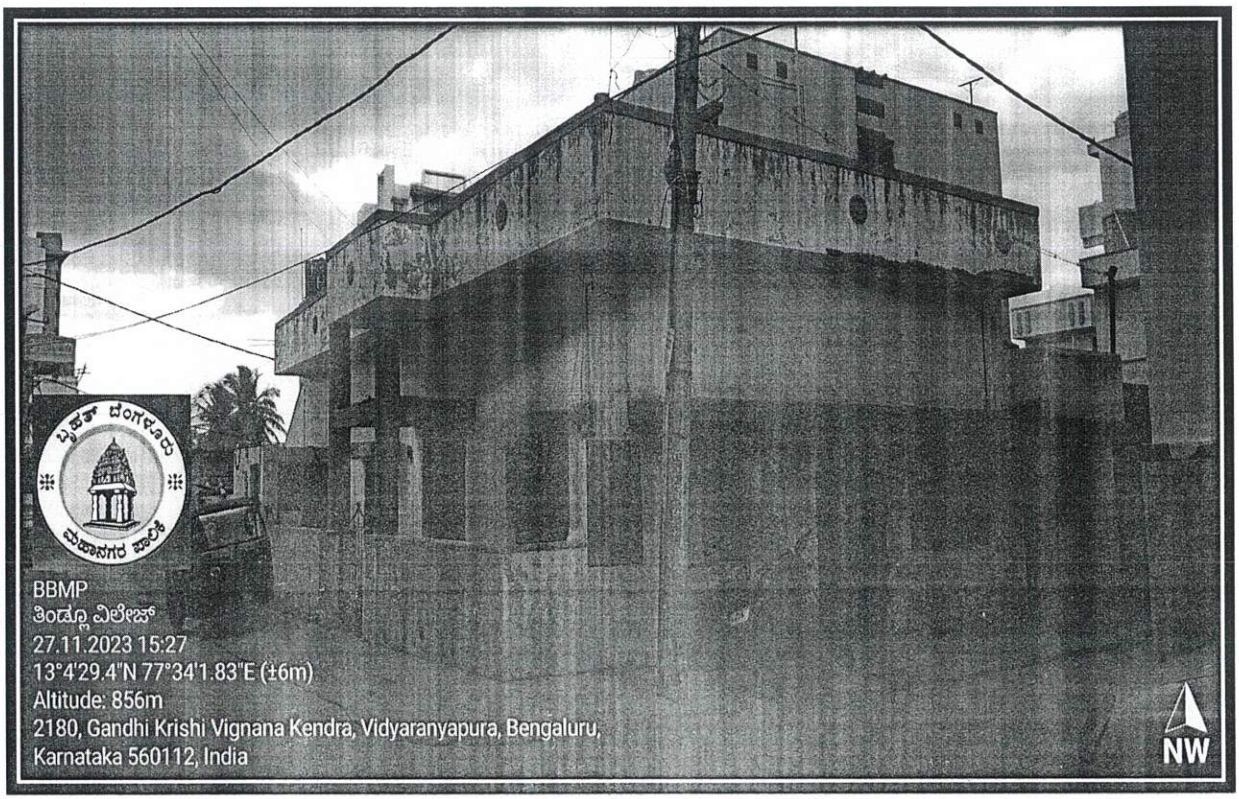


Figure 2 SAMUDHAYA BHAVAN

Assistant Engineer
Ward 10, Kodigehalli Sub-Division
BBMP

Asst. Executive Engineer
Kodigehalli Sub-Division
BBMP